

Installation Manual



10305 KIT

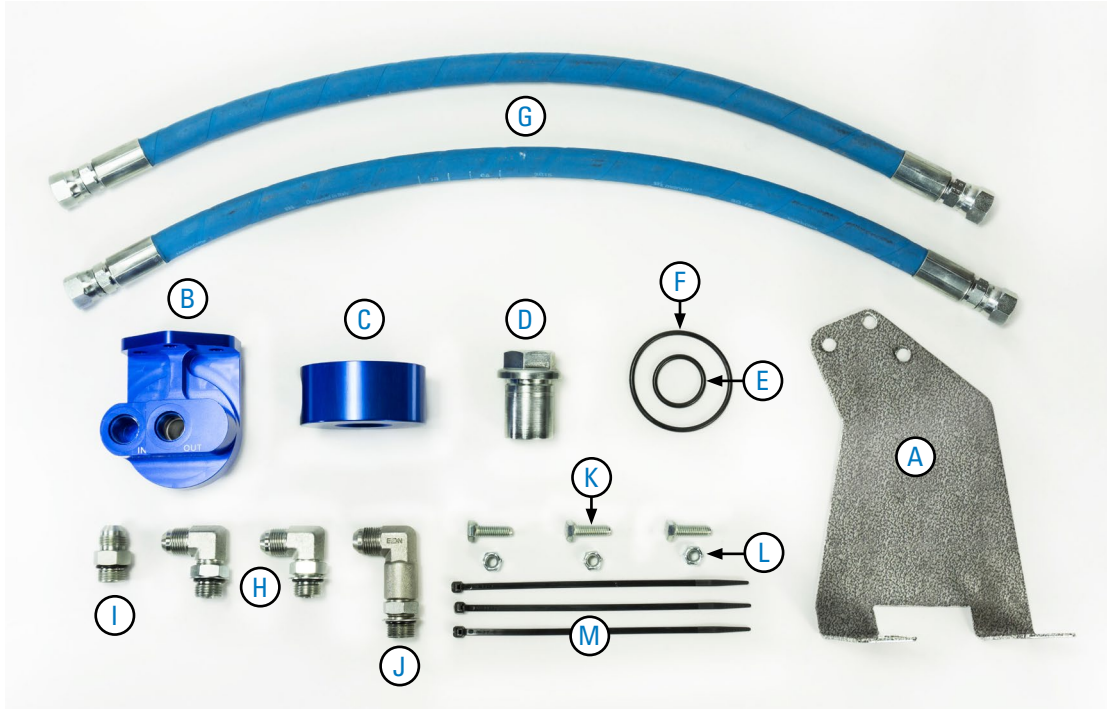
Dodge RAM with 1"-16 UN Oil Filter Threads*

Oil filtration relocation kits provide easy access & serviceability to the engine's oil filter.

* See application guide for proper fitment.

Thank you and congratulations on the purchase of an oil filter relocation kit. Please read the entire manual prior to starting the installation to ensure you can complete it once started.

KIT LAYOUT



KIT CONTENTS

Please make sure all the items shown in the above kit layout are provided in your kit before starting the installation.

KIT CONTENTS			REQUIRED TOOLS		
	QTY	PART #			
A Oil Filter Relocation Bracket	1	HP1605	• Hoist or Floor Jack		
B Remote Filter Head	1	HP0042	• Safety Stands		
C Replacement Filter Head	1	HP0031	• Safety Glasses		
D Retaining Nut	1	HP0032	• Torque Wrench		
E O-Ring (Small)	1	HP1029	• Standard Combination Wrenches		
F O-Ring (Large)	1	HP1030	• 7/32" Hex Allen Wrench		
G Hydraulic Hose	2	HP1499	• 1-1/8" Wrench or Deep Socket		
H 90° Hydraulic Fitting	2	HP1024	• Ratchet		
I Straight Hydraulic Fitting	1	HP1025	• Metric & Standard Sockets		
J Extended 90° Hydraulic Fitting	1	HP1330			
K 5/16 – 18 X 1" Hex Head Cap Screw	3	HP1028			
L 5/16 – 18 Nylon Lock Nut	3	C11943			
M Tie Straps	3	C11618			

1 REMOVE THE EXISTING OIL FILTER

Remove the existing oil filter and recycle.

2 INSTALLING FITTINGS: REPLACEMENT FILTER HEAD

Locate the straight and 90° hydraulic fittings provided in the kit.

Install them into the replacement filter head (as shown in Figure 2).

Tighten the lock nut on both fittings to 40 ft-lbs (54 N•m).

NOTE: Ensure the 90° fitting is pointing downwards after tightening.



1

3 INSTALL RUBBER SEALS

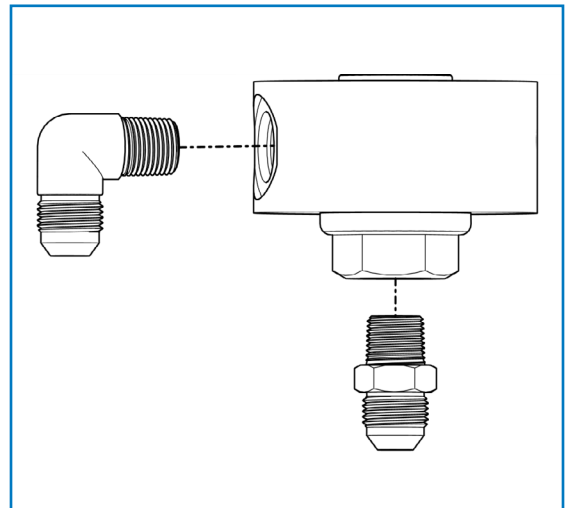
Install both seals onto the replacement filter head assembly (as shown in Figure 3).

Put a light coat of clean engine oil on both seals and loosely install the assembly into the engine by turning the filter head retaining nut.

4 ADJUST FOR CLEARANCE

Rotate the replacement filter head assembly to attain maximum clearance for hose routing.

Tighten the filter head retaining nut as you would for a new filter installation.



2

5 ASSEMBLE BRACKET

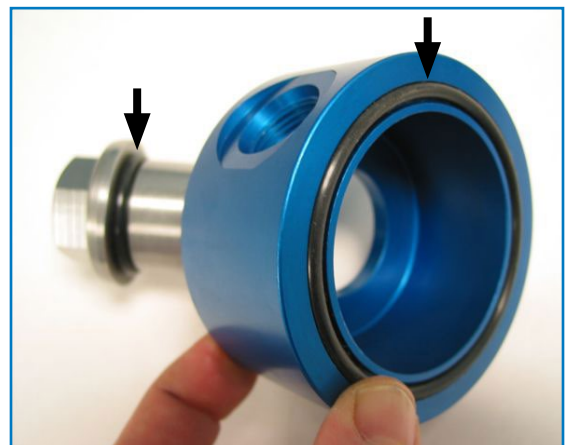
Using the 5/16" fasteners provided, secure the remote filter head to the mounting bracket (as shown in Figure 5 on the following page).

Torque the screws to 25 ft-lbs (34 N•m).

6 INSTALLING FITTINGS: REMOTE FILTER HEAD

Locate the 90° hydraulic fittings and install them into the remote filter head (as shown in Figure 6 on the following page).

Do not tighten the fittings yet to allow for adjustment.



3

7 LOOSELY INSTALL MOUNTING BRACKET

Locate the two OE cap screws holding the sway bar in place on the Passenger side of the vehicle (see Figure 7 for reference).

Remove the screws, install the filter mounting bracket, and loosely reinstall the cap screws.

The bracket should be placed on the outside of the frame rail, facing the wheel.

8 ATTAIN HOSE CLEARANCE

Rotate the 90° hydraulic fittings to attain maximum clearance for hose routing.

Use a marker to mark the orientation of the hydraulic fittings.

NOTE: Ensure that the fittings on the hoses have enough clearance to attach onto the fittings on the remote filter head.

9 TIGHTEN FITTINGS

Remove the filter mounting bracket out from under the vehicle and tighten the lock nut on both of the hydraulic fittings on the remote filter head to 40 ft-lbs (54 N•m).

10 HOSE ASSEMBLY

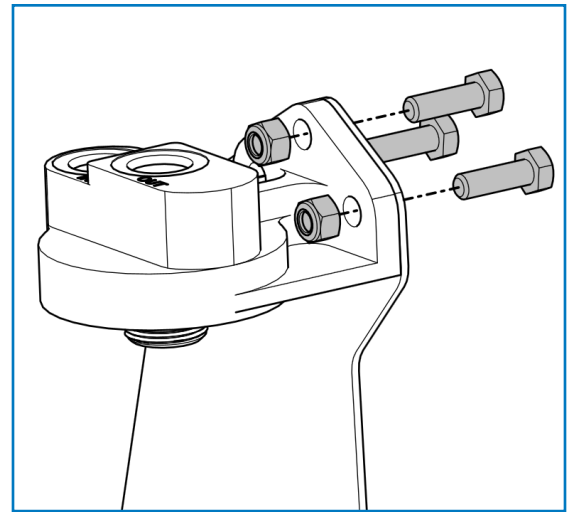
Locate the two hydraulic hoses provided in the kit and install one end of each hose onto the 90° fittings on the remote filter head.

Tighten both hose end fittings to 40 ft-lbs (54 N•m).

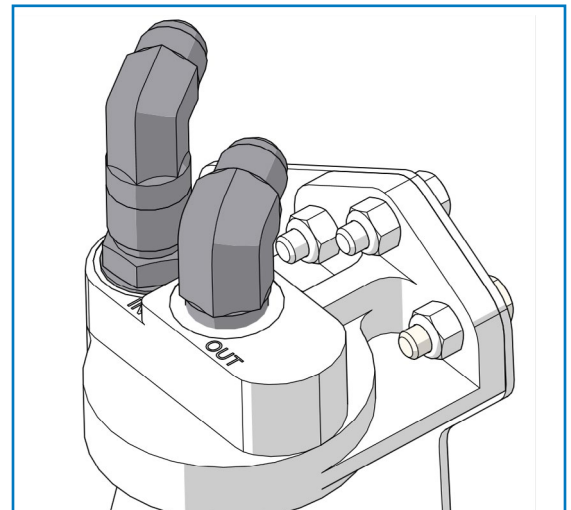
11 RE-INSTALL THE FILTER MOUNTING BRACKET

With the hoses still attached to the filter mounting head, roughly route the hoses into the vehicle and reinstall the filter mounting bracket into the vehicle.

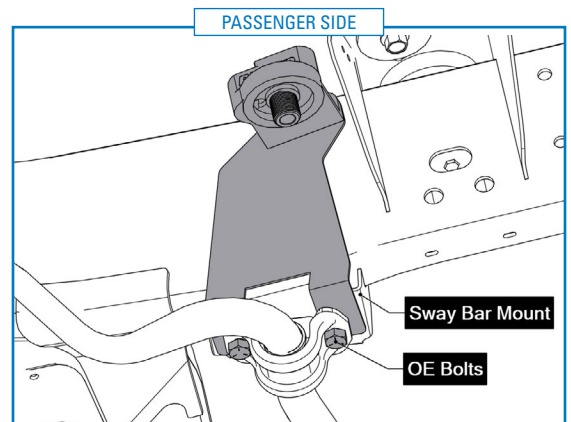
Torque the sway bar cap screws to 45 ft-lbs (61 N•m). The bracket should be installed on the outside of the frame rail, facing the wheel.



5



6



7

12 HOSE INSTALLATION

Route the hoses from the remote filter head to the fittings on the replacement filter head.

Using Figure 12 as reference, connect the hose attached to the center fitting of the remote filter head to the center fitting on the replacement filter head.

Connect the hose attached to the outside fitting on the remote filter head to the outside fitting on the replacement filter head. Tighten both fittings.

NOTE: Use the supplied tie straps to secure the hydraulic lines away from heat sources and moving parts.

10 INSTALL A NEW OIL FILTER

Install a new oil filter into the remote filter head.

NOTE: It is recommended to fill the new oil filter with clean engine oil prior to installation.

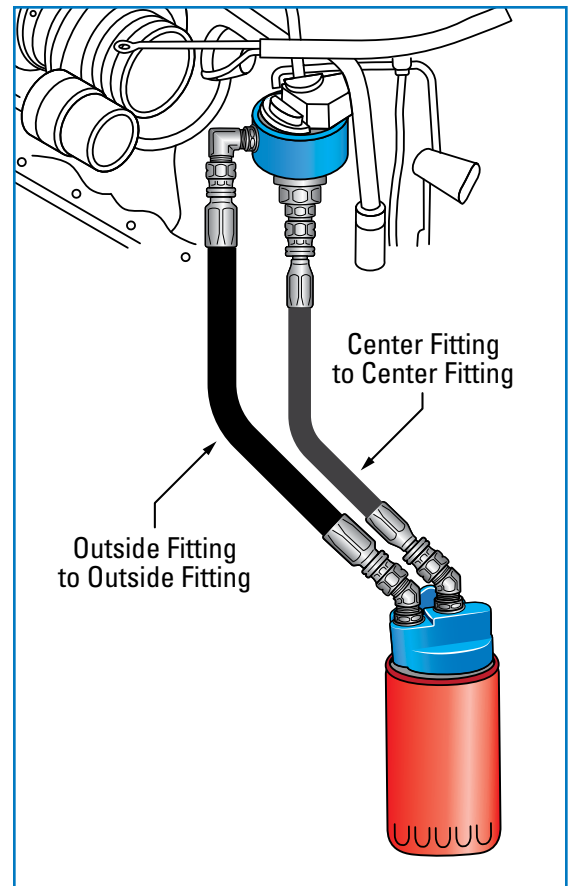
Double check all the fittings to ensure they are tightened adequately before moving on to the following step.

11 TESTING THE SYSTEM

Start the vehicle and allow it to idle while watching the oil pressure gauge.

Once the engine oil pressure is in the normal range, check the entire system again for oil leaks.

Congratulations!
You have completed the installation



12